DATE: 05/02/2002

TIME: 15:07:48

PAGE: 1

### RAW SEQUENCE LISTING PATENT APPLICATION US/09/885,189

INPUT SET: S36845.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

1		SEQUENCE I	LISTING												
2															
3	(1) General Info	rmation:													
4	(i) APPLICA	NT: Chris SOMERVILLE													
5		Pierre BROUN													
6		Frank VAN DE LOO													
7															
8	(ii) TITLE	(ii) TITLE OF INVENTION: Production of Hydroxylated Fatty Acids in													
9		Genetically Modified Plants													
10															
11	(iii) NUMBE	R OF SEQUENCES: 15													
12															
13	· · · · · · · · · · · · · · · · · · ·	PONDENCE ADDRESS:	DILL COUNTY WARTON C CUMPO II D												
14	1	ADDRESSEE:	PILLSBURY MADISON & SUTRO, LLP												
15	, — <i>,</i>	STREET:	1100 NEW YORK AVENUE, N.W.												
16	•	CITY:	WASHINGTON												
17	• •	STATE:	USA FAITEDE												
18 19	, ,	COUNTRY: ZIP:	USA 20005-3918 ENTERE												
20	(F)	Z1P:	20005-3916												
21	(11) COMPILER	R READABLE FORM:													
22	• • • • • • •	MEDIUM TYPE:	Diskette, 3.50 inch												
23	1	COMPUTER:	IBM PC compatible												
24	•-•	OPERATING SYSTEM:	MS-DOS/PC-DOS												
25	• •	SOFTWARE:	Word Perfect 5.1												
26	ν-,														
27	(vi) CURREN	T APPLICATION DATA:													
28		APPLICATION NUMBER: 09/	/885,189												
29	(B)	FILING DATE: 21-June-20	001												
30	(C)	CLASSIFICATION:													
31															
32	(vii) PRIOR	APPLICATION DATA:													
33	••	APPLICATION NUMBER:	US/08/597,313D												
34	(B)	FILING DATE:	February 6, 1996												
35															
36	(vii) PRIOR APPLIC		/												
37		APPLICATION NUMBER:	08/530,862												
38	(B)	FILING DATE:	September 20, 1995												
39	(														
40	· · ·	APPLICATION DATA:	00/300 000												
41	11	APPLICATION NUMBER:	08/320,982 October 11, 1994												
42	(B)	FILING DATE:	OCCUDET II, 1994												
43	/ii\ pprop	ADDITOATTONI DATA													
44	••	APPLICATION DATA: APPLICATION NUMBER:	08/314,596												
45 46	\ <b>,</b>		September 26, 1994												
46	(B)	FILING DATE:	pehreumer 70' 1334												

## RAW SEQUENCE LISTING PATENT APPLICATION US/09/885,189

DATE: 05/02/2002 TIME: 15:07:48

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47 48														
49	(2) INFORMATION FOR SEQ ID NO:1:													
50 51	(i) SEQUENCE CHARACTERISTICS:													
52	(A) LENGTH: 543 nucleotides													
53	(B) TYPE: nucleotide													
54	(C) STRANDEDNESS: single													
55	(D) TOPOLOGY: linear													
56	(b) 10102001.													
57	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:													
58	(·····································													
59	TATTGGCACC GGCGGCACCA TTCCAACAAT GGATCCCTAG AAAAAGATGA AGTCTTTGTC	60												
60														
61	CCACCTAAGA AAGCTGCAGT CANATGGTAT GTCAAATACC TCAACAACCC TCTTGGACGC	120												
62														
63	ATTCTGGTGT TAACAGTTCA GTTTATCCTC GGGTGGCCTT TGTATCTAGC CTTTAATGTA	180												
64														
65	TCAGGTAGAC CTTATGATGG TTTCGCTTCA CATTTCTTCC CTCATGCACC TATCTTTAAG	240												
66														
67	GACCGTGAAC GTCTCCAGAT ATACATCTCA GATGCTGGTA TTCTAGCTGT CTGTTATGGT	300												
68		260												
69	CTTTACCGTT ACGCTGCTTC ACAAGGATTG ACTGCTATGA TCTGCGTCTA CGGAGTACCG	360												
70		420												
71	CTTTTGATAG TGAACTTTTT CCTTGTCTTG GTCACTTTCT TGCAGCACAC TCATCCTTCA	420												
72 73	TTACCTCACT ATGATTCAAC CGAGTGGGAA TGGATTAGAG GAGCTTTGGT TACGGTAGAC	480												
73 74	TTACCTCACT ATGATTCAAC CGAGTGGGAA TGGATTAGAG GAGCTTTGGT TACGGTAGAC	400												
7 <del>4</del> 75	AGAGACTATG GAATCTTGAA CAAGGTGTTT CACAACATAA CAGACACCCA CGTAGCACAC	540												
76	AGAGACIATO GARTCITOAN CANOCIGITI CACAROLINI. GAGAGAGAGA													
77	CAC	543												
78														
79	(2) INFORMATION FOR SEQ ID NO:2:													
80														
81	(i) SEQUENCE CHARACTERISTICS:													
82	(A) LENGTH: 544 nucleotides													
83	(B) TYPE: nucleotide													
84	(C) STRANDEDNESS: single													
85	(D) TOPOLOGY: linear													
86	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:													
87														
88	TATAGGCACC GGAGGCACCA TTCCAACACA GGATCCCTCG AAAGAGATGA AGTATTTGTC	60												
89														
90	CCAAAGCAGA AATCCGCAAT CAAGTGGTAC GGCGAATACC TCAACAACCC TCCTGGTCGC	120												
91		100												
92	ATCATGATGT TAACTGTCCA GTTCGTCCTC GGATGGCCCT TGTACTTAGC CTTCAACGTT	180												
93	TCTGGCAGAC CCTACAATGG TTTCGCTTCC CATTTCTTCC CCAATGCTCC TATCTACAAC	240												
94	TUTGGCAGAC CUTACAATGG TTTCGCTTCC CATTTCTTCC CCAATGCTCC TATCTACAAC	240												
95 96	GACCGTGAAC GCCTCCAGAT TTACATCTCT GATGCTGGTA TTCTAGCCGT CTGTTATGGT	300												
96 97	GACCOTGAAC GCCTCCAGAT TIACATCTCT GATGCTGGTA TICTAGCCGT CTGTTATGGT	500												
98	CTTTACCGTT ACGCTGTTGC ACAAGGACTA GCCTCAATGA TCTGTCTAAA CGGAGTTCCG	360												
99														

#### RAW SEQUENCE LISTING PATENT APPLICATION US/09/885,189

DATE: 05/02/2002

TIME: 15:07:49

INPUT SET: \$36845.raw CTTCTGATAG TTAACTTTTT CCTCGTCTTG ATCACTTACT TACAACACA TCACCCTGCG TTGCCTCACT ATGATTCATC AGAGTGGGAT TGGCTTAGAG GAGCTTTAGC TACTGTAGAC AGAGACTATG GAATCTTGAA CAAGGTGTTC CATAACATCA CAGACACCCA CGTCGCACAC CACT (2) INFORMATION FOR SEQ ID NO:3: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1855 nucleotides nucleotide (B) TYPE: (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3: ATGAAGCTTT ATAAGAAGTT AGTTTTCTCT GGTGACAGAG AAATTNTGTC AATTGGTAGT GACAGTTGAA GCAACAGGAA CAACAAGGAT GGTTGGTGNT GATGCTGATG TGGTGATGTG TTATTCATCA AATACTAAAT ACTACATTAC TTGTTGCTGC CTACTTCTCC TATTTCCTCC GCCACCCATT TTGGACCCAC GANCCTTCCA TTTAAACCCT CTCTCGTGCT ATTCACCAGA AGAGAAGCCA AGAGAGAGA AGAGAGAATG TTCTGAGGAT CATTGTCTTC TTCATCGTTA TTAACGTAAG TTTTTTTGA CCACTCATAT CTAAAATCTA GTACATGCAA TAGATTAATG ACTGTTCCTT CTTTTGATAT TTTCAGCTTC TTGAATTCAA GATGGGTGCT GGTGGAAGAA TAATGGTTAC CCCCTCTTCC AAGAAATCAG AAACTGAAGC CCTAAAACGT GGACCATGTG AGAAACCACC ATTCACTGTT AAAGATCTGA AGAAAGCAAT CCCACAGCAT TGTTTCAAGC GCTCTATCCC TCGTTCTTTC TCCTACCTTC TCACAGATAT CACTTTAGTT TCTTGCTTCT ACTACGTTGC CACAAATTAC TTCTCTCTTC TTCCTCAGCC TCTCTCTACT TACCTAGCTT GGCCTCTCTA TTGGGTATGT CAAGGCTGTG TCTTAACCGG TATCTGGGTC ATTGGCCATG AATGTGGTCA CCATGCATTC AGTGACTATC AATGGGTAGA TGACACTGTT GGTTTTATCT TCCATTCCTT CCTTCTCGTC CCTTACTTCT CCTGGAAATA CAGTCATCGT CGTCACCATT CCAACAATGG ATCTCTCGAG AAAGATGAAG TCTTTGTCCC ACCGAAGAAA GCTGCAGTCA AATGGTATGT TAAATACCTC AACAACCCTC TTGGACGCAT TCTGGTGTTA ACAGTTCAGT TTATCCTCGG GTGGCCTTTG TATCTAGCCT TTAATGTATC AGGTAGACCT TATGATGGTT TCGCTTCACA TTTCTTCCCT CATGCACCTA TCTTTAAAGA CCGAGAACGC CTCCAGATAT 

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## RAW SEQUENCE LISTING PATENT APPLICATION US/09/885,189

DATE: 05/02/2002 TIME: 15:07:49

INPUT	SET:	S368	345.raw
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					Ì	INPUT SET: S3684.	5.raw			
153										
154	ACATCTCAGA	TGCTGGTATT	CTAGCTGTCT	GTTATGGTCT	TTACCGTTAC	GCTGCTTCAC	1140			
155			magamama ma	CA CHA CCCCH	mmma a ma cmc	3 3 COORDINAC	1200			
156 157	AAGGATTGAC	IGCIAIGAIC	TGCGTCTATG	GAGTACCGCT	IIIGAIAGIG	AACTTTTTCC	1200			
157	₼₼₼₼₼₼₼₼	አ እ ርጥጥጥርጥጥር	CACCACACTC	ልጥሮሮጥጥሮፎጥጥ	<b>አ</b> ርርጥር አጥጥ አጥ	GATTCAACCG	1260			
159	TIGICTIGGI	AACITICITO	CAGCACACIC	AICCIICGII	ACCICATIAT	GATTCAACCG	1200			
160	AGTGGGAATG	GATTAGAGGA	GCTTTGGTTA	CGGTAGACAG	AGACTATGGA	ATATTGAACA	1320			
161										
162	AGGTGTTCCA	TAACATAACA	GACACACATG	TGGCTCATCA	TCTCTTTGCA	ACTATACCGC	1380			
163										
164	ATTATAACGC	AATGGAAGCT	ACAGAGGCGA	TAAAGCCAAT	ACTTGGTGAT	TACTACCACT	1440			
165										
166	TCGATGGAAC	ACCGTGGTAT	GTGGCCATGT	ATAGGGAAGC	AAAGGAGTGT	CTCTATGTAG	1500			
167					~~	mm1 ma1 aaam				
168	AACCGGATAC	GGAACGTGGG	AAGAAAGGTG	TCTACTATTA	CAACAATAAG	TTATGAGGCT	1560			
169	CAMACCCCCA	CACAACTICCA	አመጥአጥሮአ አጥሮ	ጥጥር እ ጥጥጥር C እ	<b>ጥርጥጥጥጥ እ</b> ርርጥ	GTCTTGTTTA	1620			
170 171	GATAGGGCGA	GAGAAGIGCA	ATTATCAATC	ITCATTICCA	IGITITAGGI	GICTIGITIA	1020			
172	AGAAGCTATG	Стттсттса	ATAATCTCAG	AGTCCATNTA	GTTGTGTTCT	GGTGCATTTT	1680			
173	1101110011110									
174	GCCTAGTTAT	GTGGTGTCGG	AAGTTAGTGT	TCAAACTGCT	TCCTGCTGTG	CTGCCCAGTG	1740			
175										
176	AAGAACAAGT	TTACGTGTTT	AAAATACTCG	GAACGAATTG	ACCACAANAT	ATCCAAAACC	1800			
177										
178	GGCTATCCGA	ATTCCATATC	CGAAAACCGG	ATATCCAAAT	TTCCAGAGTA	CTTAG	1855			
179	(2)									
180	(2) INFO	RMATION FOR	SEQ ID NO:	<b>4</b> :						
181 182	/ ÷	) GEOTIENCE	CHARACTERIS'	rtcg.						
183	1,1			iics.	384 am	ino acids				
184	(A) LENGTH: 384 amino acids (B) TYPE: amino acid									
185		•- •	TRANDEDNESS	:						
186		(D) T	OPOLOGY:		linear					
187										
188	(x	i) SEQUENCE	DESCRIPTION	N: SEQ ID N	NO:4:					
189										
190										
191		ly Ala Gly	_	Met val Thi		er Lys Lys Ser 15				
192 193	1		5	10	,	15				
194	Glu T	hr Glu Ala	Leu Ivs Ara	Gly Pro Cys	s Glu Ivs Pi	o Pro Phe Thr				
195	GIUI	20	dea byb Arg	25	oru zyo r.	30				
196		_*					•			
197	Val L	ys Asp Leu	Lys Lys Ala	Ile Pro Glr	n His Cys Ph	ne Lys Arg Ser				
198		35	- <b>-</b>	40		15				
199										
	Tle D	ro Arg Ser	Phe Ser Tyr	Leu Leu Thr	_	ır Leu Val Ser				
200										
201		50	55		60					
201 202				1 M 71		Dwa Cla Dara				
201				Asn Tyr Phe		eu Pro Gln Pro 80				

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													IIVI	OIS	EI: 3	30043.TU
206 207	Leu	Ser	Thr	Tyr	Leu 85	Ala	Trp	Pro	Leu	Tyr 90	Trp	Val	Cys	Gln	Gly 95	Cys
208 209 210	Val	Leu	Thr	Gly 100	Ile	Trp	Val	Ile	Gly 105	His	Glu	Cys	Gly	His 110	His	Ala
211 212 213	Phe	Ser	Asp 115	Tyr	Gln	Trp	Val	Asp 120	Asp	Thr	Val	Gly	Phe 125	Ile	Phe	His
214 215 216	Ser	Phe 130	Leu	Leu	Val	Pro	Tyr 135	Phe	Ser	Trp	Lys	Tyr 140	Ser	His	Arg	Arg
217 218 219	His 145	His	Ser	Asn	Asn	Gly 150	Ser	Leu	Glu	Lys	Asp 155	Glu	Val	Phe	Val	Pro 160
220 221 222		Lys	Lys	Ala	Ala 165	Val	Lys	Trp	Tyr	Val 170	Lys	Tyr	Leu	Asn	Asn 175	Pro
223 224	Leu	Gly	Arg			Val	Leu	Thr	Val 185		Phe	Ile	Leu	Gly 190		Pro
225 226 227	Leu	Tyr		180 Ala	Phe	Asn	Val			Arg	Pro	Tyr	Asp		Phe	Ala
228 229 230	Ser	His	195 Phe	Phe	Pro	His	Ala	200 Pro	Ile	Phe	Lys	Asp	205 Arg	Glu	Arg	Leu
231 232 233	Gln	210 Ile	Tvr	Ile	Ser	Asp	215 Ala	Gly	Ile	Leu	Ala	220 Val	Cys	Tyr	Gly	Leu
234 235	225		_			230					235		Ile			240
236 237 238	-		-		245			_		250					255	
239 240 241	-			260					265				Leu	270		
242 243 244	Leu	Gln	His 275	Thr	His	Pro	Ser	Leu 280	Pro	His	Tyr	Asp	Ser 285	Thr	Glu	Trp
245 246 247	Glu	Trp 290	Ile	Arg	Gly	Ala	Leu 295	Val	Thr	Val	Asp	Arg 300	Asp	Tyr	Gly	Ile
248 249 250	Leu 305	Asn	Lys	Val	Phe	His 310	Asņ	Ile	Thr	Asp	Thr 315	His	Val	Ala	His	His 320
251 252	Leu	Phe	Ala	Thr	Ile 325	Pro	His	Tyr	Asn	Ala 330	Met	Glu	Ala	Thr	Glu 335	Ala
253 254 255	Ile	Lys	Pro	Ile 340	Leu	Gly	Asp	Tyr	Tyr 345	His	Phe	Asp	Gly	Thr 350	Pro	Trp
256 257 258	Tyr	Val	Ala 355	Met	Tyr	Arg	Glu	Ala 360	Lys	Glu	Cys	Leu	Tyr 365	Val	Glu	Pro

## SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/09/885,189

DATE: 05/02/2002 TIME: 15:07:50

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Line

Error

Original Text

## SEQUENCE MISSING ITEM REPORT PATENT APPLICATION US/09/885,189

DATE: 05/02/2002 TIME: 15:07:50

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<< THERE ARE NO ITEMS MISSING >>

## SEQUENCE CORRECTION REPORT PATENT APPLICATION US/09/885,189

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Line

Original Text

Corrected Text